MG1204 Applied Statistics for Quality Development 3.0 credits

Tillämpning av statistik för kvalitetsutveckling

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

The official course syllabus is valid from the spring semester 2025 in accordance with the decision by the Head of the ITM School: M-2023-2482. Date of decision: 2023-11-30

Grading scale

A, B, C, D, E, FX, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

General entry requirements.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After passing the course, the student should be able to:

1. Use statistical tools and methods to analyse large amounts of data

2. Draw conclusions of the analysis and communicate these as part of a basis for a decision

3. Apply statistical methods as support for basic development processes in the industry.

Course contents

Introductory probability theory
Use concepts in describing statistics and illustrate data in different diagrams by means of software
Multi-factor analysis
Experimental design

Examination

- KON1 - Partial exam, 1.5 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboratory work, 1.5 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.